



Supporting a Generation of Digital Makers

Doug Belshaw, Mozilla Foundation
and Kathleen Stokes, Nesta
#digitalmakers

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Kathleen Stokes

Policy Advisor, Digital Education

Nesta

kathleen.stokes@nesta.org.uk

@KathleenStokes

#digitalmakers
etherpad.mozilla.org/digitalmakers



Doug Belshaw

Badges & Skills Lead

Mozilla Foundation

doug@mozillafoundation.org

[@dajbelshaw](#)



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First things first...



Introduce
yourself to the
person sitting
next to you.



Ask:
What's your
definition of
'making'?
What about
'digital making'?



Share it on
Etherpad.

Go to:

<https://etherpad.mozilla.org/digitalmakers>

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How we define digital making

Digital making is the **creative process of making a product or digital artefact** – from websites, apps, games, and 3D animations to physical objects driven by microcontrollers.

Digital making will often mean using **coding and programming skills** as well as the **creative use of digital tools** to make new products...

How we define digital making

Digital making skills are fundamentally underpinned by an understanding of **computational thinking** but may also include things like **creative teamwork, problem solving, engineering and design** in order to build new technologies.

Introduction

The Schedule

Activity 1 – Definitions

What is digital making? Why is it important?

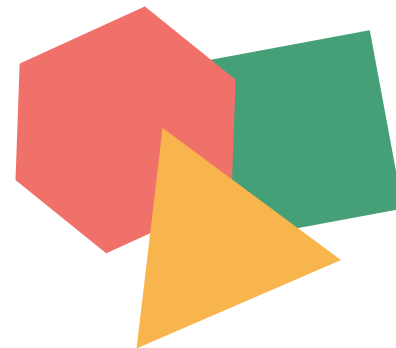
Activity 2 – Getting started with digital making

The UK Digital Makers programme

Q&A

Going forward

What to expect



- 60 minutes to share our experiences and hear from you...
- So interact, debate and take part!
- Please, be polite and considerate
- Add, don't delete
- Maker principles – we're going to create something!

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DECODING LEARNING:

THE PROOF,
PROMISE AND
POTENTIAL OF
DIGITAL EDUCATION

Rosemary Luckin,
Brett Bligh, Andrew Manches,
Shaaron Ainsworth,
Charles Crook, Richard Noss

November 2012



“One the best ways
people can learn is
by making and
sharing things.”

Luckin et al.

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"You can't take on twenty-first-century tasks with twentieth-century tools and hope to get the job done."



Cathy Davidson
(Now You See It)

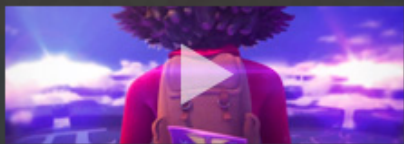
"The less involved and aware we are of the way our technologies are programmed and program themselves, the more narrow our choices will become; the less we will be able to envision alternatives to the pathways described by our programs; and the more our lives and experiences will be dictated by their biases."



Douglas Rushkoff
*(Program or Be
Programmed)*



Earn Skills. Become a Maker.



Watch the Anthem

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Skills

Parents

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About

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Policies

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Made in California, loved everywhere.



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or

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Skills



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Blog



Welcome to DIY! Do challenges, share what you make, and earn Skill patches!

[Watch our Anthem](#), [Join](#), or [Sign In](#)



Mr Tails Fox

Maker since Nov 18, 2012



Projects

9



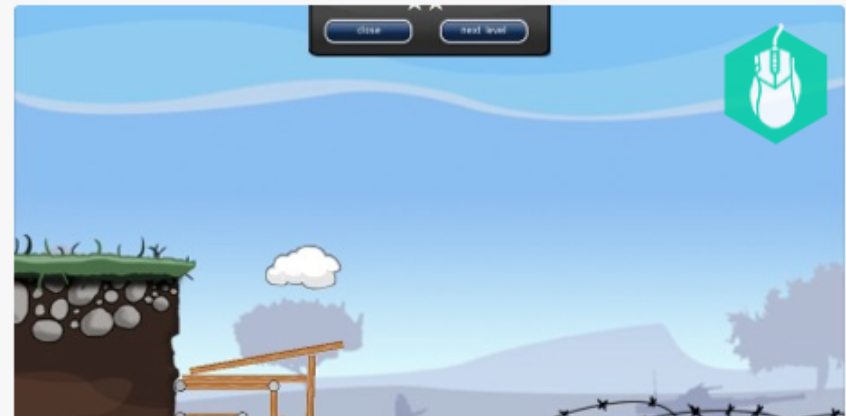
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1



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A-Z

Newest



Maker

Makers develop skills, wisdom, and grit, to improvise in any situation.

[10 Challenges](#)

Yeti

A large, hairy creature resembling a human or bear, said to live in the snowy mountains everywhere.

[13 Challenges](#)

Dancer

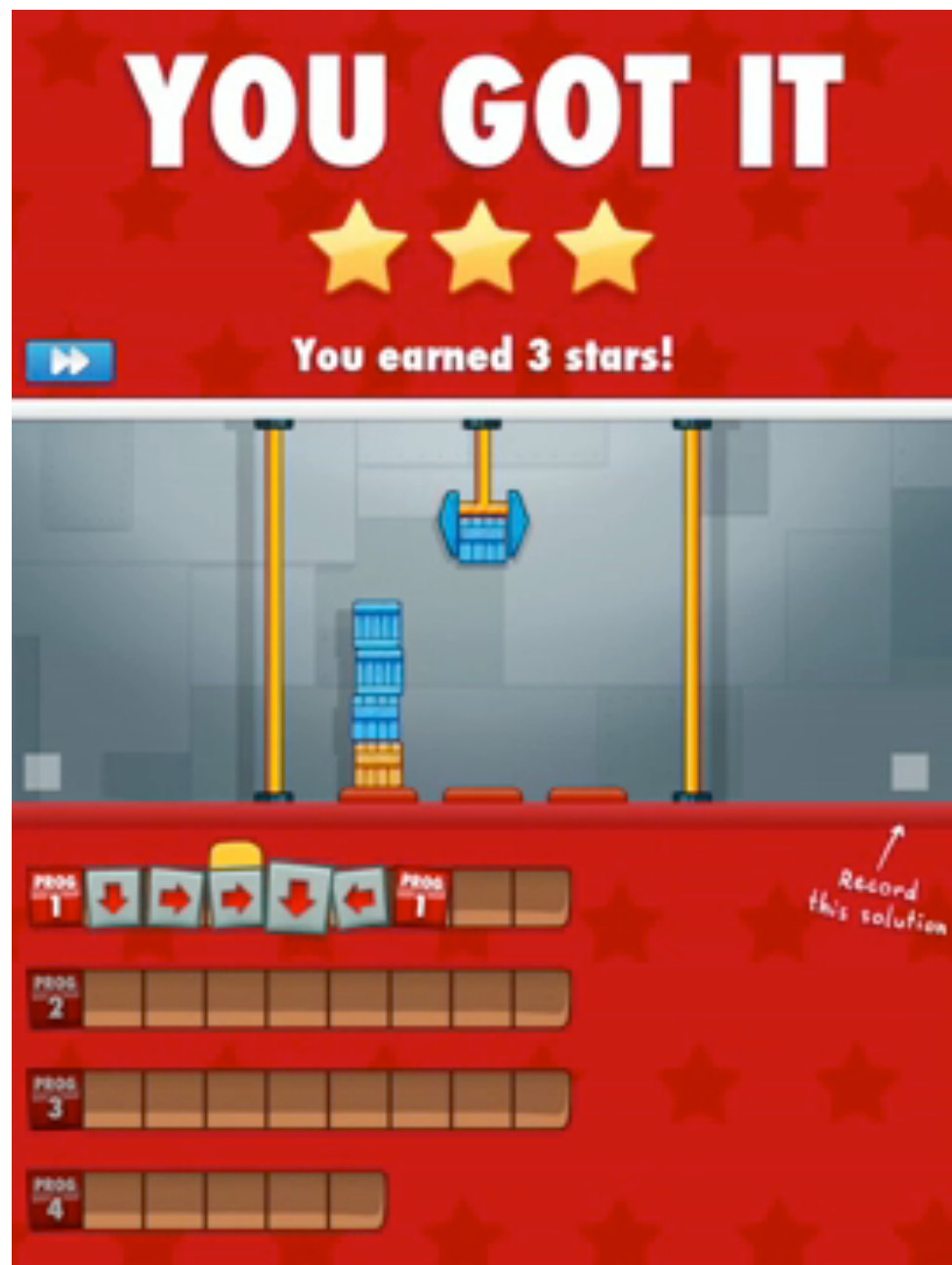
Dancers are artists of movement, and the body is their single tool.

[11 Challenges](#)

Sensor Hacker

Sensors detect conditions in the environment, like temperature, light, sound, magnetism and motion.

[11 Challenges](#)



http://youtu.be/pXVhn_pkD4U

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`<div>`

X-RAY GOGGLES

Remix, make and share webpages instantly.

`</div>`

MAKE YOUR FIRST HACK IN THREE EASY STEPS!

1. Copy this URL to your clipboard:

http://seriouscat.com/serious_cat_is_serious.jpg

2. Activate the **X-Ray Goggles**.

3. Move your mouse over the image on the right to see what it's made of, and tap **R** to make it point to the URL from your clipboard!



... AND THEN, THE WORLD!

SHARE WITH FRIENDS!

BECOME A NINJA!

You are on a `<div>` element with id

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<http://youtu.be/bOf4EMN6-XA>



Flickr by @bdesham



Flickr by @ScratchEdTeam

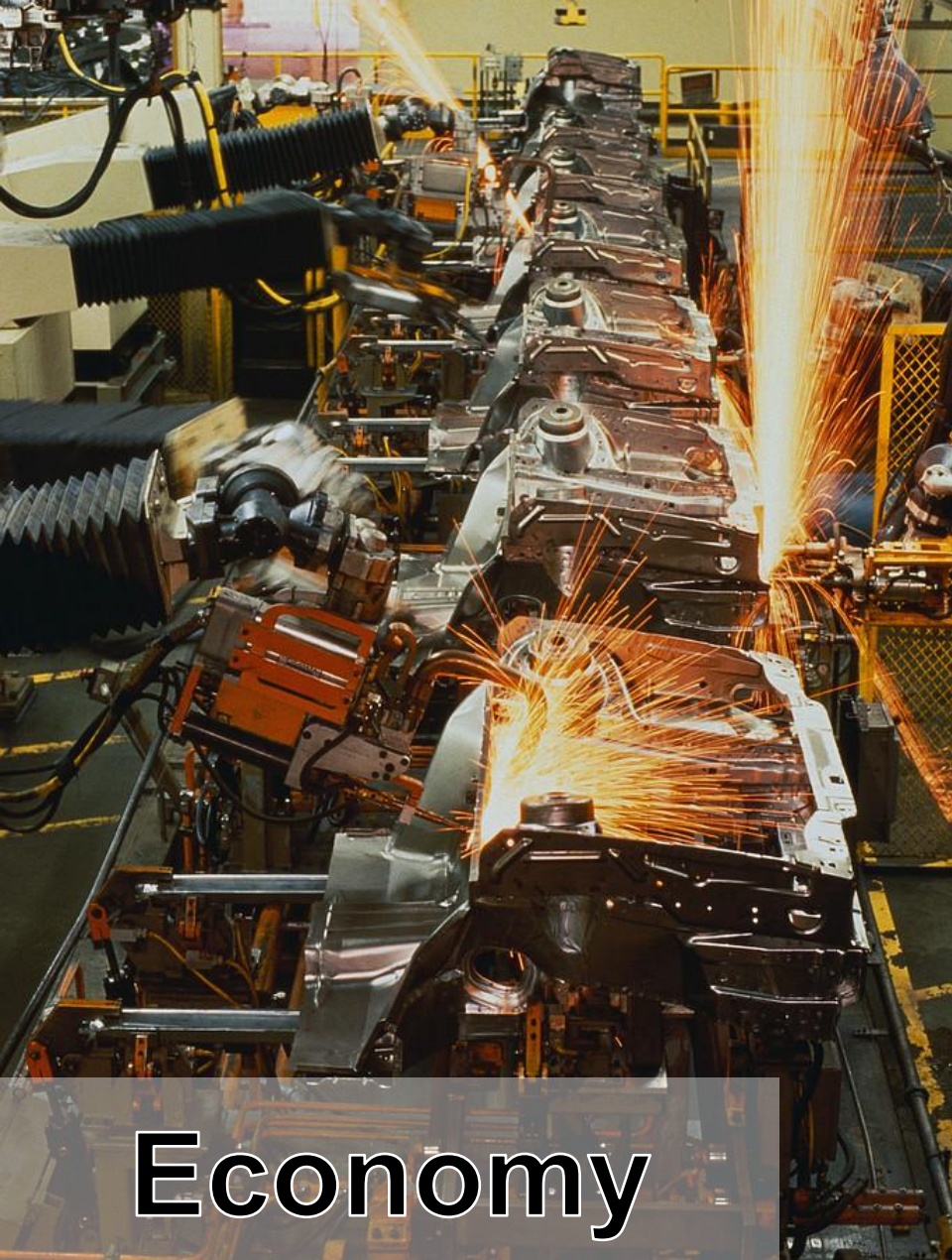
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Why do we need to do something?

Microsoft Images

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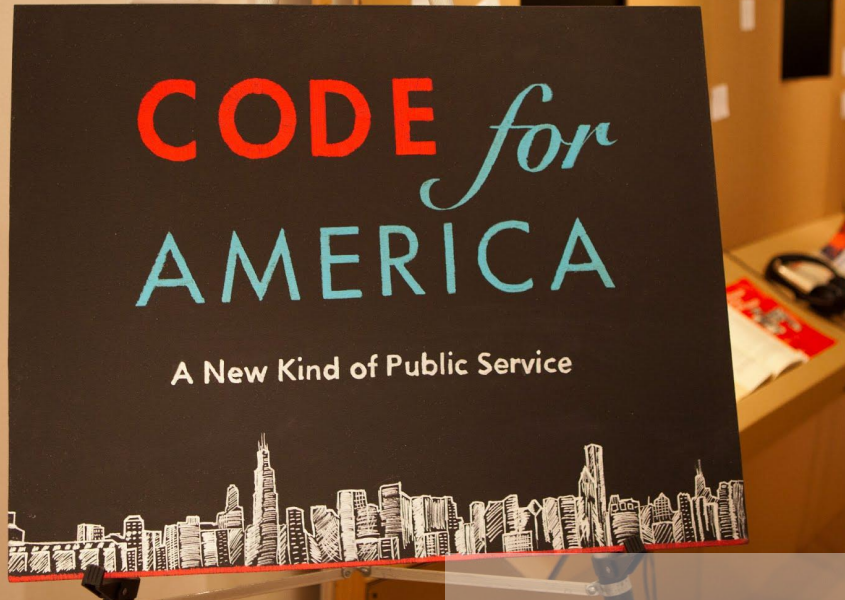


Economy



Creativity

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Activity

- Access the Etherpad (address below)
- Where can kids participate in digital making now? Where could they?
- What else can you add in the way of resources, contacts or ideas?

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60% of British parents say they would like their children to learn about coding

67% of British children (aged 8-15) say they are interested in learning how to code

... but only 3% know how to code.

What's going on in the UK?

UK children (aged 9-16) are **more avid users of the Internet** than in the rest of Europe.

The average child first **accesses the Internet** at age 8

and spends an average of **102 minutes online daily** compared to 88 minutes by kids in the rest of Europe.

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Digital Making Champions

The logo for 'Hack to the Future' is displayed in a bold, stylized font. The word 'HACK' is on the top line, and 'TO THE FUTURE' is on the bottom line. The text is rendered in a gradient of red and orange, giving it a fiery or digital appearance. The background is solid black, which makes the glowing text stand out. The font is a heavy, sans-serif style with a slight slant.

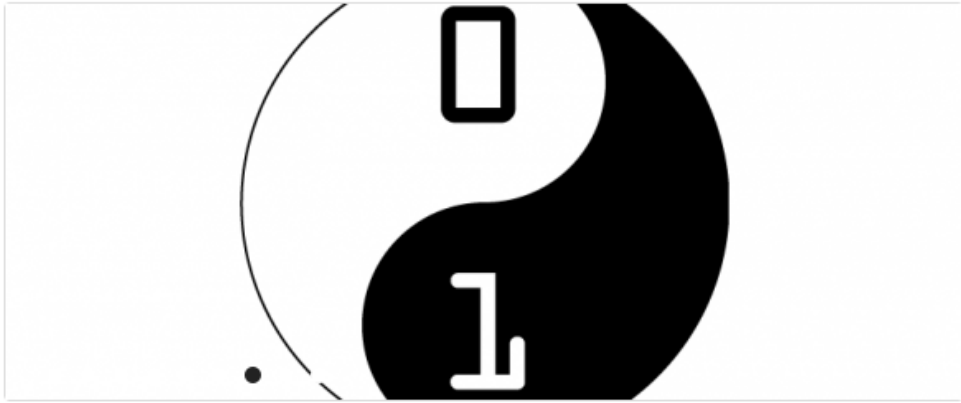
<http://youtu.be/SfBeLvy4IpE>

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Example: Coder Dojo

 **CoderDojo**

Home Dojo Directory Knowledge Base News About ▾



Join the Global Collaboration...

Start a Dojo

Become a Mentor

The Dojo Directory

Coderdojo is...

a global collaboration providing free and open learning to young people, especially in programming technology.

I want to get Involved

If you want to join us to learn or to mentor, find a Dojo nearby and get in touch. If you want to start up a CoderDojo, check out the [guide here!](#) You can also create or assist online with projects on GitHub or via Skype.

Where are CoderDojos

Dublin to London to Tokyo to San Francisco to New York and everywhere in between! Learners or Mentors [click for a list](#), or start your own, its fun!

I want to find out more

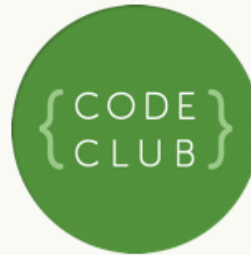
Check out the knowledge base, Kata, which is growing all the time. [click here!](#)



*Please Note: Some Dojo's marker geo-coding not there yet, [click for list](#).

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Example: Code Club

[GETTING STARTED](#)[COMMUNITIES](#)[EVENTS](#)[FAQS](#)[SUPPORTERS](#)[SHOP](#)[BLOG](#)[SUPPORT US](#)

A nationwide network of volunteer-led after school coding clubs for children aged 9-11

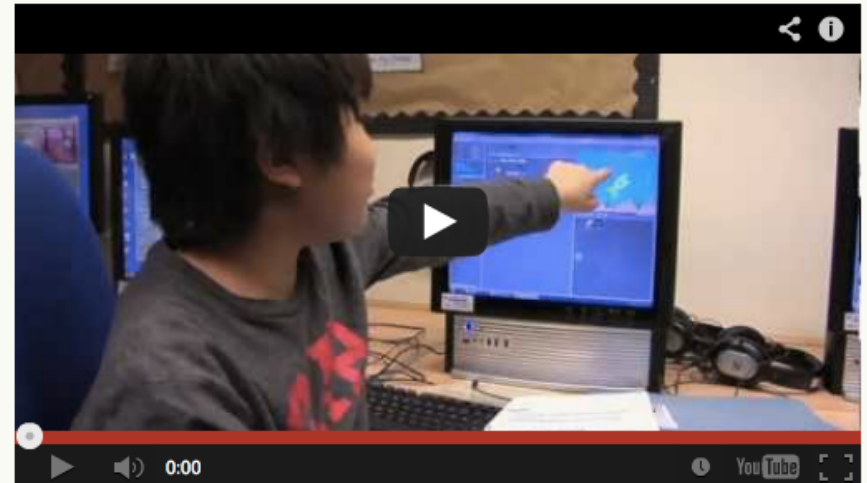
Our mission

Give every child in the UK the chance to learn to code. It is our aim to have Code Club in 25% of primary schools in the UK by the end of 2015.

How it works

Volunteers run Code Club after-school at their local primary school or community centre. Children attend Code Club once a week to learn the basics of coding. Find out more about [how to get started](#).

Code Club helps volunteers and schools find each other and creates projects for volunteers to teach at club sessions. The projects for term one use [Scratch](#) and [look like this](#).



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Example: Technocamps

technocamps
Inspiring | Creative | Fun
Ysbrydoledig | Creadigol | Hwyl

[Accessibility](#) | [Contact us](#) | [Press](#) | [Moodle Login](#) | [Cymraeg](#) [AA](#)

Search this site



11-15 years

16-19 years

Educators

Technozone

Blog

Business

About us

Scratch

**Free
resources
and
training**

Educators



Welcome to Technocamps

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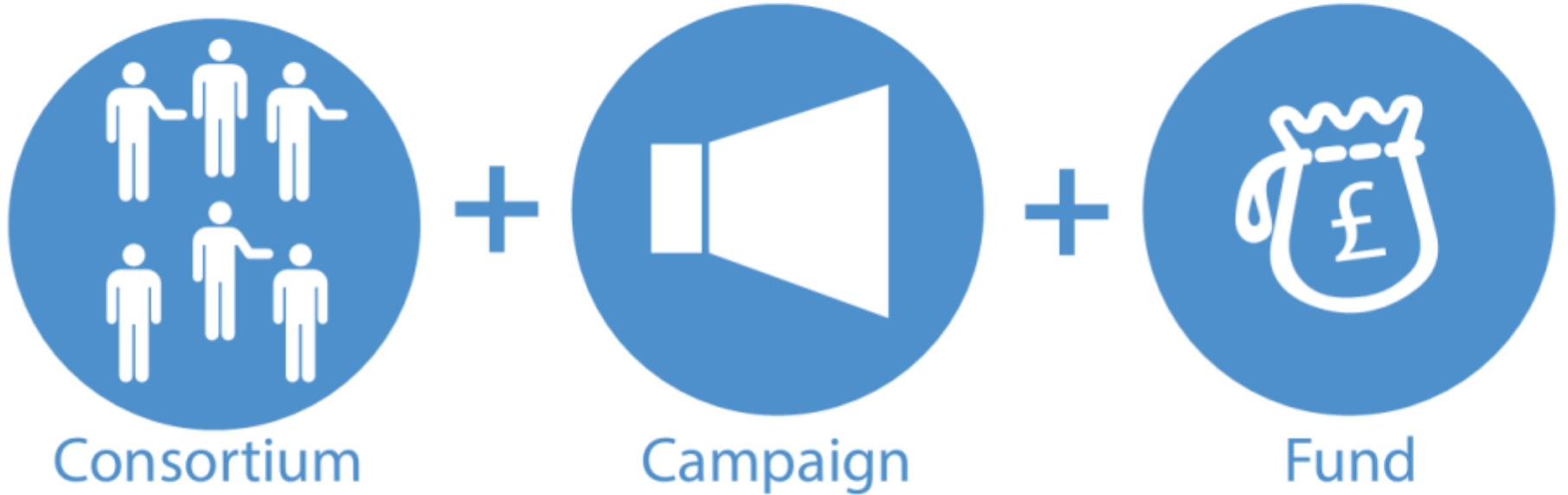
The Digital Makers Programme

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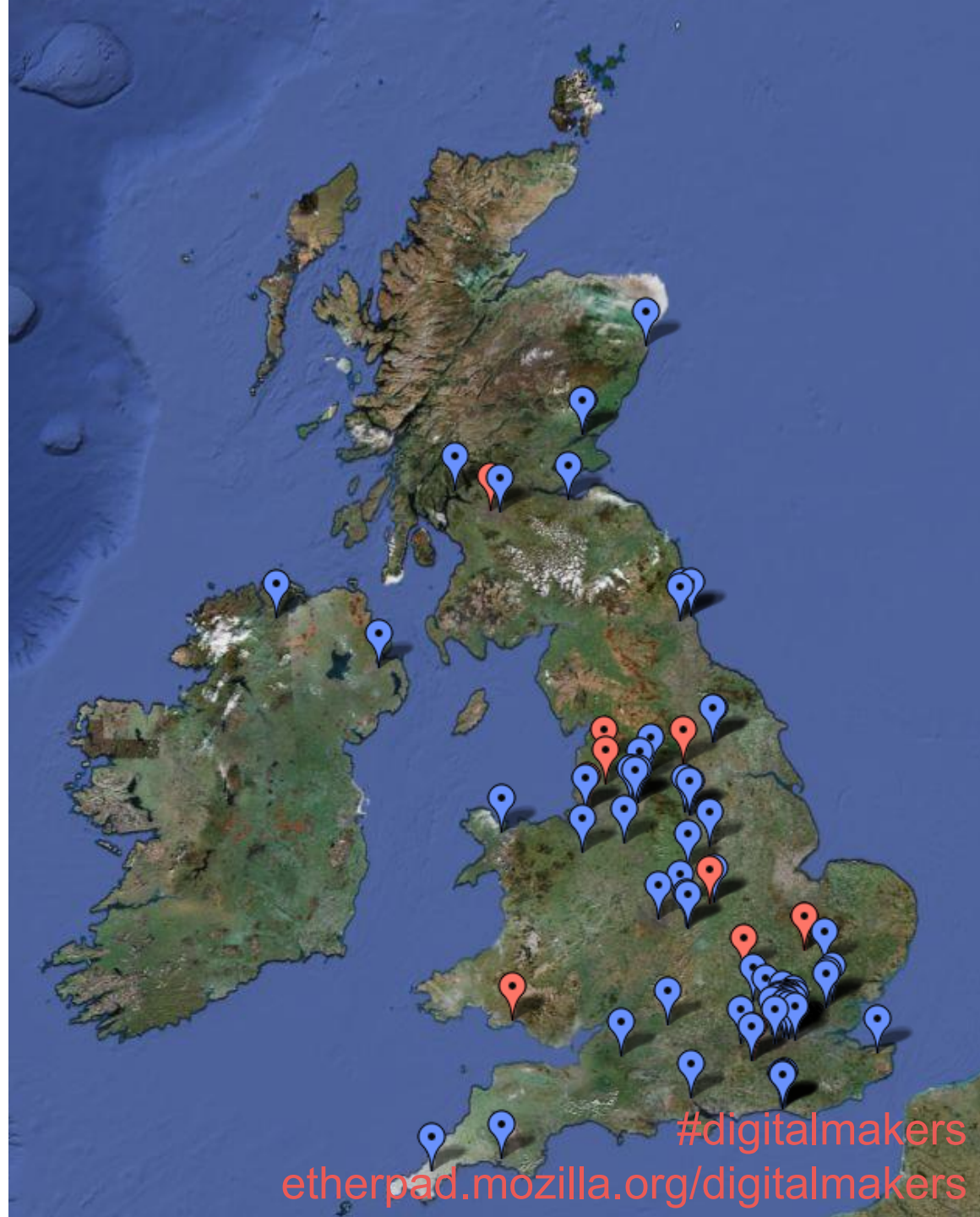
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Digital Maker Applicants

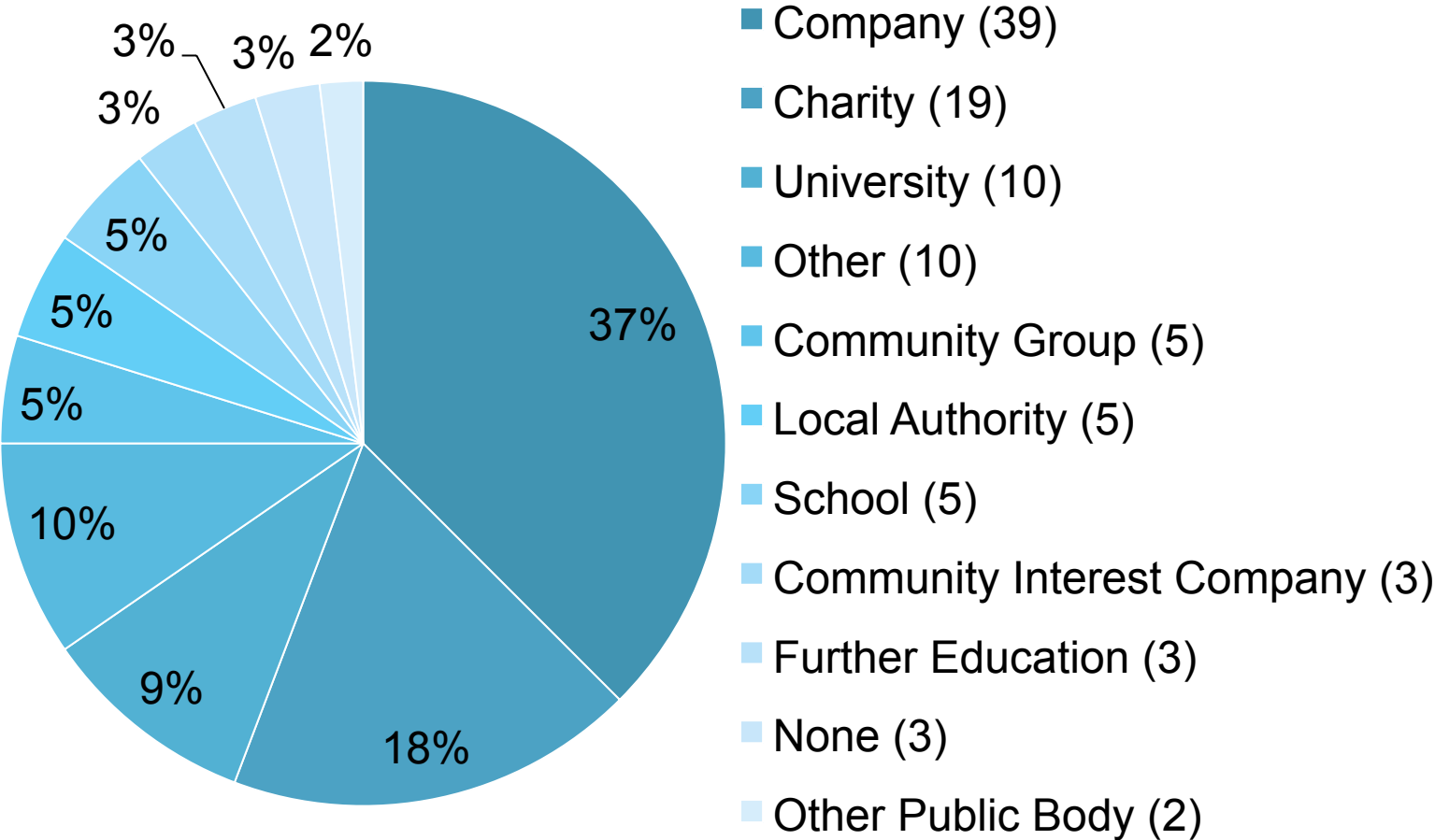


<http://goo.gl/maps/2nioj>

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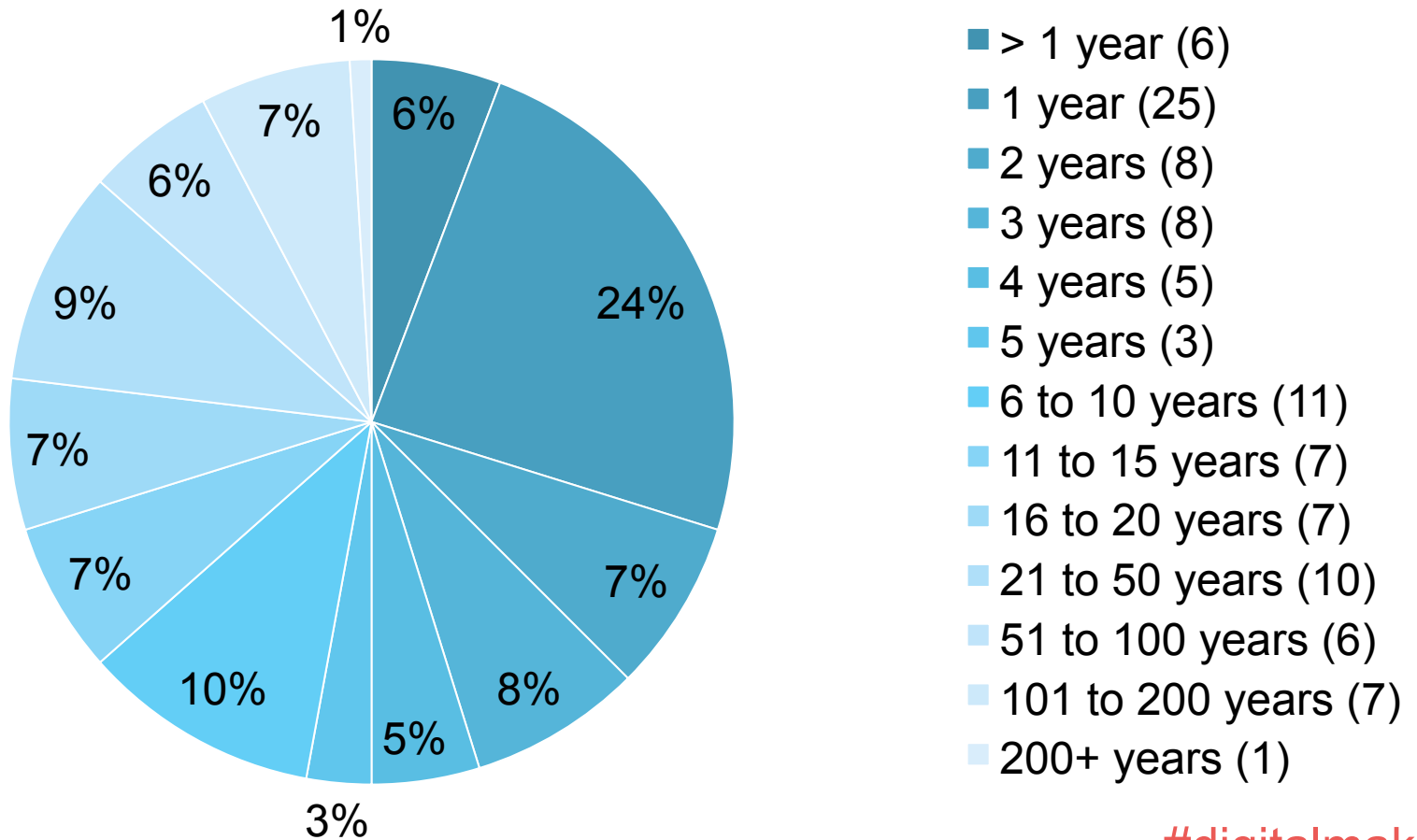
Applicants to the Open Call

Open Call Applicants:
Type of Organisation



Applicants to the Open Call

Open Call Applicants: Years in Operation



Digital Making Values and Principles

- Digital technology is a tool to change the world, knowing how to harness it is a fundamental literacy for the 21st century.
- We learn through making and doing.
- We work better together (this is an open movement. Collaboration and sharing are key to its success.)



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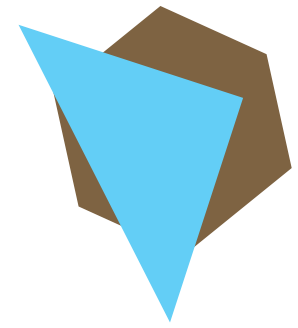
What is digital making? Why is it important?

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Questions?

Ask us now or...

- Tweet #digimakers
- Comment on etherpad.mozilla.org/digitalmakers
- Write a post-it note

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**How can we support a
generation of digital
makers?**

Our next steps...



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MAKE
THINGS
DO
STUFF

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**How can we support a
generation of digital
makers?
Your next steps...**



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Nesta...



Final Questions?

Ask us now or...

- Tweet #digitalmakers
- Comment on etherpad.mozilla.org/digitalmakers
- Write a post-it note
- Email doug@mozillafoundation.org
- Email kathleen.stokes@nesta.org.uk

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<The End>